

## EAST Search History

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------|------------------|---------|------------------|
| L1    | 28   | "375"/\$.ccls. and (idle adj channel adj noise)   | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:07 |
| L2    | 0    | "375"/\$.ccls. and (diagnostic same (idle adj channel adj noise))                       | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:12 |
| L3    | 3    | "375"/\$.ccls. and (diagnostic and (idle adj channel adj noise))                        | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:12 |
| L4    | 20   | (diagnostic and (idle adj channel adj noise))   | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:13 |
| L5    | 1    | (diagnostic adj message) and (idle adj channel adj noise)                               | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:15 |
| L6    | 1    | (diagnostic ) and (idle adj channel adj noise) and DMT                                  | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:15 |
| L7    | 3    | (diagnostic adj mode ) and (idle adj channel adj noise)                                 | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:15 |
| L8    | 15   | (diagnostic ) and (idle adj channel adj noise) and modem                                | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:16 |
| L9    | 20   | (diagnostic ) and (idle adj channel adj noise)  | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:17 |
| L10   | 1    | "6631120".pn.   | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 09:27 |
| L11   | 1    | 10/619691   | US-PGPUB; USPAT        | OR               | ON      | 2008/10/13 10:17 |
| S1    | 674  | "375"/\$.OCLS. and (channel adj cod\$5) and diversity                                   | US-PGPUB; USPAT        | OR               | ON      | 2005/09/09 09:15 |
| S2    | 230  | "375"/\$.OCLS. and ((channel adj cod\$5) same diversity)                                | US-PGPUB; USPAT        | OR               | ON      | 2007/03/27 07:06 |
| S3    | 1    | "6247158".pn.   | US-PGPUB; USPAT        | OR               | ON      | 2005/09/08 16:58 |
| S4    | 7    | ("4577317"   "5283780"   "5907582"   "5909439"   "5970085"   "6023492"   "6049566").PN. | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/08 17:00 |
| S5    | 1    | "6178196".pn.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/08 17:00 |

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|-----|------|---|--------------------|----|----|---------------------|
| S6  | 1    | "6389063".PN.   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/09<br>09:16 |
| S7  | 1    | "6603807".PN.   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/09<br>09:16 |
| S8  | 1    | "6359926".PN.   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/09<br>09:16 |
| S9  | 15   | "375"/260.OCLS. and<br>((channel adj cod\$5)<br>same diversity)   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>15:55 |
| S10 | 1    | "6178196".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:00 |
| S11 | 1    | "6693982".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:41 |
| S12 | 0    | cross adj correlated adj<br>base adj band                         | US-PGPUB;<br>USPAT | OR | ON | 2006/02/24<br>11:01 |
| S13 | 762  | (cross adj correlated)<br>near2 signal                            | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:42 |
| S14 | 589  | (cross adj correlated)<br>near signal                             | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:42 |
| S15 | 43   | S14 with transmit\$5  | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:50 |
| S16 | 362  | transmitter same<br>diversity same delay                          | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:51 |
| S17 | 3    | transmitter same<br>diversity same (delay<br>adj path)            | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>16:51 |
| S18 | 1196 | diversity with delay  | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:03 |
| S19 | 139  | diversity same (multi<br>adj user)                                | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:04 |
| S20 | 15   | diversity same (plurality<br>adj user) same<br>transmitter        | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:12 |
| S21 | 24   | diversity same (plurality<br>adj user) same<br>transmission       | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:06 |
| S22 | 0    | diversity same (plurality<br>adj user) same<br>(different adj PN) | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:11 |
| S23 | 18   | diversity same (plurality<br>adj user) same ( PN adi<br>code)     | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:12 |
| S24 | 0    | diversity same (plurality<br>adj user) same ( PN adj<br>code)     | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:12 |
| S25 | 34   | (plurality adj antenna)<br>same (plurality adj<br>user)           | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:16 |

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|-----|--------|---|--------------------|----|----|---------------------|
| S26 | 17     | (plurality adj antenna)<br>same (plurality adj<br>user) same transmi\$5   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:17 |
| S27 | 0      | (plurality adj antenna)<br>same (distinct adj<br>signal)                  | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:18 |
| S28 | 3      | (plurality adj antenna)<br>same (different adj<br>spread adj code)        | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:18 |
| S29 | 12     | (diversity) same<br>(different adj spread<br>adj code)                    | US-PGPUB;<br>USPAT | OR | ON | 2005/09/15<br>17:19 |
| S30 | 0      | multiusers same<br>(channel adj coder)<br>same (plurality adj<br>antenna) | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:54 |
| S31 | 3      | data same (channel adj<br>coder) same (plurality<br>adj antenna)          | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:54 |
| S32 | 1      | MIMO same (channel<br>adj coder) same<br>(plurality adj antenna)          | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>15:03 |
| S33 | 3      | (MIMO same (channel<br>adj coder)) and<br>(plurality adj antenna)         | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:56 |
| S34 | 86     | multi adj user adj data   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:58 |
| S35 | 2      | S34 and mimo  | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:56 |
| S36 | 10     | S34 and diversity   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:57 |
| S37 | 0      | S34 and (seial adj<br>parallel)   | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:58 |
| S38 | 0      | S34 and (serial adj<br>parallel)  | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:58 |
| S39 | 194399 | data same channel<br>coder same (plurality<br>adj antenna)                | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:59 |
| S40 | 3      | data same (channel adj<br>coder) same (plurality<br>adj antenna)          | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>14:59 |
| S41 | 8      | data same (coder)<br>same (plurality adj<br>antenna)                      | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>15:00 |
| S42 | 31     | data and (channel adj<br>coder) and (plurality<br>adj antenna)            | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>15:01 |
| S43 | 3      | (channel adj coder)<br>same MIMO  | US-PGPUB;<br>USPAT | OR | ON | 2005/09/16<br>15:02 |

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|-----|-------|--|---------------------------|----|----|---------------------|
| S44 | 5     | (channel adj coder)<br>same (plurality adj<br>antenna)                   | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:03 |
| S45 | 66    | (encoder) same<br>(plurality adj antenna)                                | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:16 |
| S46 | 5     | "6285720"  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:06 |
| S47 | 13    | "375"/\$.ccls. and (multi<br>adj user adj data)                          | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:19 |
| S48 | 48    | "375"/\$.ccls. and<br>((multi adj user) same<br>TDMA)                    | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:20 |
| S49 | 9     | "375"/\$.ccls. and<br>((multi adj user) same<br>FDD)                     | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:21 |
| S50 | 10    | "370"/\$.ccls. and<br>((multi adj user) same<br>FDD)                     | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:22 |
| S51 | 1     | "370"/\$.ccls. and<br>((channel adj encoder)<br>same FDD)                | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:24 |
| S52 | 0     | "370"/\$.ccls. and<br>((channel adj coder)<br>same FDD)                  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:24 |
| S53 | 1     | ((channel adj coder)<br>same FDD)  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:24 |
| S54 | 0     | ((channel adj coder)<br>same (multi adj user))                           | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:24 |
| S55 | 1     | ((channel adj encoder)<br>same (multi adj user))                         | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:26 |
| S56 | 16    | ((spatial adj diversity)<br>same (multi adj user))                       | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:27 |
| S57 | 99    | ((spatial adj diversity)<br>and (multi adj user))                        | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:36 |
| S58 | 3     | "6359864"  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:31 |
| S59 | 106   | ((FDD and CDMA) and<br>(multi adj user))                                 | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:31 |
| S60 | 11    | ((spatial adj diversity)<br>and (channel adj<br>coder))                  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/16<br>15:36 |
| S61 | 5     | ("5321725"  <br>"5784417"   "6031474"<br>  "6088408"  <br>"6473878").PN. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:48 |
| S62 | 38154 | data adj source  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:48 |
| S63 | 19    | S62 with (multi adj<br>user)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:53 |

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|-----|-------|--|---------------------------|----|----|---------------------|
| S64 | 3     | (frequency adj division<br>adj duplex) same (multi<br>adj user) same CDMA                            | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:51 |
| S65 | 5     | ("5559723"  <br>"5905946"   "5933457"<br>  "6161209"  <br>"6615024").PN.                             | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:52 |
| S66 | 0     | (multi adj user adj<br>source)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:53 |
| S67 | 25    | ((multi adj user) near2<br>source)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:53 |
| S68 | 23266 | ((multi adj user) near2<br>source) amd MIMO  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:53 |
| S69 | 0     | ((multi adj user) near2<br>source) and MIMO  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>15:55 |
| S70 | 1     | "6693982".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:11 |
| S71 | 1     | "5886967".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:11 |
| S72 | 1     | "5886987".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:13 |
| S73 | 6     | (information adj<br>source) near2 (different<br>adj source)  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:13 |
| S74 | 323   | "375"/\$.ccls. and<br>(multiple adj access adj<br>interference)                                      | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:14 |
| S75 | 32    | "375"/\$.ccls. and<br>(multiple adj access adj<br>interference) and<br>(demultiplex\$5)              | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:16 |
| S76 | 7     | "375"/\$.ccls. and<br>(multiple adj access adj<br>interference) and<br>(demultiplex\$5) and<br>coder | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:14 |
| S77 | 28    | "375"/\$.ccls. and<br>(multiple adj channel)<br>and (channel adj coder)                              | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2005/09/16<br>16:16 |
| S78 | 1     | "6741658".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/18<br>08:43 |
| S79 | 1     | "6898248".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2005/09/18<br>08:44 |
| S80 | 1     | "6359864".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2006/02/21<br>10:50 |
| S81 | 1     | "6310923".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2006/02/21<br>10:50 |

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|------|-----|--|--------------------|----|----|---------------------|
| S82  | 3   | 375/267.ccls. and<br>(transmit near<br>(different adj<br>information)) | US-PGPUB;<br>USPAT | OR | ON | 2006/02/24<br>13:52 |
| S83  | 1   | "6693982".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/24<br>15:16 |
| S84  | 561 | mapper with identif\$8   | US-PGPUB;<br>USPAT | OR | ON | 2006/02/24<br>15:16 |
| S85  | 71  | "375"/\$.ccls. and<br>(mapper with identif\$8)                         | US-PGPUB;<br>USPAT | OR | ON | 2006/02/24<br>15:16 |
| S86  | 1   | "6693982".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>09:36 |
| S87  | 171 | space adj time adj<br>block adj code                                   | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>13:37 |
| S88  | 25  | S87 and (spread adj<br>spectrum)                                       | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:11 |
| S89  | 2   | S87 and (spread adj<br>code)   | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>09:36 |
| S90  | 126 | (angle adj diversity)  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:12 |
| S91  | 0   | S87 and S90  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:11 |
| S92  | 155 | space adj time adj<br>diversity  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:12 |
| S93  | 3   | S90 and S92  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:12 |
| S94  | 3   | (angle adj diversity)<br>same (fading adj<br>channel)                  | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:17 |
| S95  | 1   | (angle adj diversity)<br>same (directed adj<br>antenna adj beam)       | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:17 |
| S96  | 1   | ((plurality adj antenna)<br>same (code adj rate)<br>same adapt\$8)     | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:54 |
| S97  | 4   | ((plurality adj antenna)<br>same (code adj rate))<br>and adapt\$8      | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:55 |
| S98  | 0   | ((plurality adj antenna)<br>same (adapt\$8 adj<br>code adj rate))      | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:55 |
| S99  | 0   | ((adaptive adj antenna)<br>same (adapt\$8 adj<br>code adj rate))       | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>10:55 |
| S100 | 0   | ((adaptive adj antenna)<br>and (adapt\$8 adj code<br>adj rate))        | US-PGPUB;<br>USPAT | OR | ON | 2006/02/27<br>15:02 |

|      |      |   |                        |    |    |                  |
|------|------|---|------------------------|----|----|------------------|
| S101 | 94   | ((adaptive adj modulation) and (adaptive adj cod\$5))                 | US-PGPUB; USPAT        | OR | ON | 2006/02/27 13:11 |
| S102 | 1    | "5383219".pn.   | US-PGPUB; USPAT        | OR | ON | 2006/02/27 13:36 |
| S103 | 50   | S87 and (transmit adj power)  | US-PGPUB; USPAT        | OR | ON | 2006/02/27 13:43 |
| S104 | 1    | "6693982".pn.   | US-PGPUB; USPAT        | OR | ON | 2006/02/27 14:05 |
| S105 | 5828 | channel adj estimat\$5  | US-PGPUB; USPAT        | OR | ON | 2006/02/27 14:05 |
| S106 | 1751 | channel adj estimator   | US-PGPUB; USPAT        | OR | ON | 2006/02/27 14:06 |
| S107 | 48   | S106 same (channel adj equalizer)                                     | US-PGPUB; USPAT        | OR | ON | 2006/02/27 14:08 |
| S108 | 3    | S107 and (space adj time)   | US-PGPUB; USPAT        | OR | ON | 2006/02/27 14:08 |
| S109 | 7    | 375/267.ccls. and recod \$5   | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:07 |
| S110 | 3    | ("5781845"   "6067324"   "6122260").PN.                               | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/27 15:06 |
| S111 | 3    | "375"/\$.ccls. and recod \$5 and (MAI)                                | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:08 |
| S112 | 1    | "375"/\$.ccls. and reencod\$5 and (MAI)                               | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:10 |
| S113 | 7    | reencod\$5 and (MAI)  | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:08 |
| S114 | 0    | "375"/148.ccls. and reencod\$5 and (MAI)                              | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:14 |
| S115 | 0    | "375"/148.ccls. and reencod\$5 and (space adj time adj diversity)     | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:14 |
| S116 | 0    | "375"/\$.ccls. and reencod\$5 and (space adj time adj diversity)      | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:14 |
| S117 | 0    | "375"/\$.ccls. and reencod\$5 and ((space adj time) near2 code)       | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:15 |
| S118 | 0    | "375"/\$.ccls. and reencod\$5 and ((space adj time) with code)        | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:15 |
| S119 | 7    | "375"/\$.ccls. and (re adj encod\$5) and ((space adj time) with code) | US-PGPUB; USPAT        | OR | ON | 2006/02/27 15:15 |
| S120 | 56   | 375/260.ccls. and Channeliz\$6  | US-PGPUB; USPAT        | OR | ON | 2006/08/10 16:58 |

|      |         |   |                 |    |    |                  |
|------|---------|---|-----------------|----|----|------------------|
| S121 | 180     | 375/267.ccls. and (space adj time adj cod \$8)  | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:15 |
| S122 | 1       | "6366888".pn.   | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:15 |
| S123 | 3       | 375/267.ccls. and (non adj interleav\$8)  | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:17 |
| S124 | 11      | 375/260.ccls. and (non adj interleav\$8)  | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:22 |
| S125 | 0       | "375"/\$.ccls. and ((inner adj cod\$5) same (outer adj cod\$6) same(non adj interleav \$8)) | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:24 |
| S126 | 2       | "375"/\$.ccls. and ((inner adj cod\$5) same (outer adj cod \$6)) and(non adj interleav\$8)  | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:24 |
| S127 | 0       | "375"/\$.ccls. and ((outer adj cod\$6) same (non adj interleav\$8))                         | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:25 |
| S128 | 3       | "375"/267.ccls. and (( cod\$6) same(non adj interleav\$8))                                  | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:25 |
| S129 | 2       | "375"/267.ccls. and (( transmit\$5) with(non adj interleav\$8))                             | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:27 |
| S130 | 4       | "375"/267.ccls. and (( transmit\$5) with (without adj interleav \$8))                       | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:27 |
| S131 | 180     | "375"/267.ccls. and (space adj time adj cod \$6)  | US-PGPUB; USPAT | OR | ON | 2006/08/11 11:28 |
| S132 | 1       | "6115427".pn.   | US-PGPUB; USPAT | OR | ON | 2006/08/16 08:06 |
| S133 | 1       | "6693982".pn.   | US-PGPUB; USPAT | OR | ON | 2006/08/16 08:06 |
| S134 | 3       | 09/393235   | US-PGPUB; USPAT | OR | ON | 2006/08/16 13:47 |
| S135 | 353     | combin\$3 with serializ \$3   | US-PGPUB; USPAT | OR | ON | 2006/08/16 13:48 |
| S136 | 3383513 | number of transmitter antennas  | US-PGPUB; USPAT | OR | ON | 2007/03/20 07:30 |
| S137 | 1       | 10/184054   | US-PGPUB; USPAT | OR | ON | 2007/03/20 09:21 |
| S138 | 1       | 10/619691   | US-PGPUB; USPAT | OR | ON | 2007/03/20 09:37 |



|      |     |  |  |    |     |                     |
|------|-----|--|--|----|-----|---------------------|
| S139 | 1   | "6636603".pn.  | US-PGPUB;<br>USPAT                         | OR | ON  | 2007/03/20<br>09:41 |
| S140 | 1   | "20040202237"  | US-PGPUB;<br>USPAT                         | OR | ON  | 2007/03/20<br>15:17 |
| S141 | 1   | 09/798727  | US-PGPUB;<br>USPAT                         | OR | ON  | 2007/03/20<br>15:17 |
| S142 | 1   | "6745050".pn.  | US-PGPUB;<br>USPAT                         | OR | ON  | 2007/03/23<br>08:55 |
| S143 | 6   | ("20020097779"  <br>"4794556"   "4941178"<br>  "5668830"  <br>"6480557"  <br>"RE31943").PN.  | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:55 |
| S144 | 695 | CDMA same (multi adj<br>user)  | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:55 |
| S145 | 374 | "375"/\$.ccls. and<br>(CDMA same (multi adj<br>user))  | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:56 |
| S146 | 287 | "375"/\$.ccls. and<br>(CDMA with (multi adj<br>user))  | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:56 |
| S147 | 0   | "375"/\$.ccls. and<br>(CDMA with (multi adj<br>user)) and (interference<br>adj cancel\$&)  | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:57 |
| S148 | 89  | "375"/\$.ccls. and<br>(CDMA with (multi adj<br>user)) and (interference<br>adj cancel\$5)  | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:57 |
| S149 | 8   | ("4134071"  <br>"4744093"   "5136612"<br>  "5164959"  <br>"5361219"   "5363403"<br>  "5481533"  <br>"5790590").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>08:58 |
| S150 | 14  | ("5956333").URPN.  | USPAT                                      | OR | OFF | 2007/03/23<br>09:01 |
| S151 | 1   | 09/326222.app.   | US-PGPUB;<br>USPAT;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/23<br>09:01 |
| S152 | 11  | ("4124818"  <br>"4992798"   "5418814"<br>  "5467368"  <br>"5566165"   "5596600"<br>  "5724378"  <br>"5956333"   "6032026"<br>  "6088383"  <br>"6229857").PN. | US-PGPUB;<br>USPAT; USOCR                  | OR | OFF | 2007/03/23<br>09:03 |

|      |     |   |                           |    |     |                     |
|------|-----|---|---------------------------|----|-----|---------------------|
| S153 | 11  | "375"/\$.ccls. and (multi<br>adj user adj demodul<br>\$8)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>11:53 |
| S154 | 0   | "375"/\$.ccls. and (multi<br>adj user ) and remodult<br>\$6 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:09 |
| S155 | 23  | "375"/\$.ccls. and (multi<br>adj user ) and<br>remodulat\$6 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:05 |
| S156 | 0   | "370"/\$.ccls. and (multi<br>adj user ) and remodult<br>\$6 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:09 |
| S157 | 0   | "455"/\$.ccls. and (multi<br>adj user ) and remodult<br>\$6 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:10 |
| S158 | 0   | "455"/\$.ccls. and<br>( user ) and remodult\$6              | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:10 |
| S159 | 237 | "455"/\$.ccls. and<br>( user ) and remodulat<br>\$6         | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:10 |
| S160 | 10  | "455"/\$.ccls. and<br>( multiuser ) and<br>remodulat\$6     | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:11 |
| S161 | 30  | ( multiuser ) and<br>remodulat\$6 and CDMA                  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:14 |
| S162 | 873 | ( multiuser ) and CDMA                                      | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:14 |
| S163 | 523 | "375"/\$.ccls. and<br>( multiuser ) and CDMA                | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:14 |
| S164 | 299 | "375"/\$.ccls. and<br>((multiuser ) same<br>CDMA)           | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/23<br>09:14 |
| S165 | 1   | "5956333".pn.   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>09:23 |
| S166 | 1   | "5644592".pn.   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>09:30 |
| S167 | 1   | 10/184054   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>10:06 |
| S168 | 1   | "6115427".pn.   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>10:28 |
| S169 | 49  | 375/267.ccls. and<br>(multiuser)                            | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>10:32 |
| S170 | 6   | 375/260.ccls. and<br>(multiuser same<br>diversity)          | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>10:33 |
| S171 | 2   | 375/295.ccls. and<br>(multiuser same<br>diversity)          | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/26<br>10:34 |

|      |     |  |                 |    |    |                  |
|------|-----|--|-----------------|----|----|------------------|
| S172 | 8   | 375/130.ccls. and (multiuser same diversity)   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:38 |
| S173 | 1   | 375/299.ccls. and (multiuser same diversity)   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:35 |
| S174 | 16  | 375/299.ccls. and (multiuser )   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:35 |
| S175 | 41  | 375/130.ccls. and (multiuser )   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:38 |
| S176 | 13  | 375/130.ccls. and (multiuser and PN)   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:40 |
| S177 | 355 | 375/299.ccls.  | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:40 |
| S178 | 167 | 375/299.ccls. and user   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:40 |
| S179 | 10  | 375/299.ccls. and (user same PN)   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:53 |
| S180 | 708 | "375"/\$.ccls. and (multi adj user) and CDMA   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:54 |
| S181 | 294 | "375"/\$.ccls. and (multi adj user) and CDMA and diversity   | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:54 |
| S182 | 19  | "375"/\$.ccls. and ((multi adj user) same CDMA same diversity)                                       | US-PGPUB; USPAT | OR | ON | 2007/03/26 10:59 |
| S183 | 14  | "455"/\$.ccls. and ((multi adj user) same CDMA same diversity)                                       | US-PGPUB; USPAT | OR | ON | 2007/03/26 11:03 |
| S184 | 134 | "375"/267.ccls. and ((user) same CDMA )  | US-PGPUB; USPAT | OR | ON | 2007/03/26 11:18 |
| S185 | 0   | "375"/267.ccls. and (variable near3 rate) same (number adj antenna)                                  | US-PGPUB; USPAT | OR | ON | 2007/03/26 11:19 |
| S186 | 9   | "375"/267.ccls. and (variable near3 rate) and (number adj antenna)                                   | US-PGPUB; USPAT | OR | ON | 2007/03/26 11:19 |
| S187 | 7   | "375"/\$.ccls. and (variable near3 rate) and (number adj antenna) and (variable adj coding adj rate) | US-PGPUB; USPAT | OR | ON | 2007/03/26 11:34 |
| S188 | 1   | "6349216".pn.  | US-PGPUB; USPAT | OR | ON | 2007/03/26 11:35 |

|      |         |   |                           |    |     |                     |
|------|---------|---|---------------------------|----|-----|---------------------|
| S189 | 53      | "4041395"  <br>"4147985"   "4165493"<br>  "4348644"  <br>"4356458"   "4370622"<br>  "4442407"  <br>"4546313"   "4647871"<br>  "4827219"  <br>"4890062"   "4924191"<br>  "4985686"  <br>"4990866"   "4994757"<br>  "5060294"  <br>"5101172"   "5113414"<br>  "5119040"  <br>"5170496"   "5195045"<br>  "5220276"  <br>"5251330"   "5251331"<br>  "5276912"  <br>"5278997"   "5300894"<br>  "5302914"  <br>"5329244"   "5339041"<br>  "5351016"  <br>"5361403"   "5408691"<br>  "5420536"  <br>"5428828"   "5483680"<br>  "5553318"  <br>"5564086"   "5589796"<br>  "5598127"  <br>"5640691"   "5673001"<br>  "5694433"  <br>"5742201"   "5880633"<br>  "5901346"  <br>"5905407"   "5907797"<br>  "6020787"  <br>"6069525"   "6141541"<br>  "6160449"  <br>"6166598").PN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>13:31 |
| S190 | 1       | "6947491".pn.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>14:03 |
| S191 | 188     | (code adj rate) and<br>(increas\$5 with<br>antenna)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>14:04 |
| S192 | 6       | (code adj rate) same<br>(increas\$5 with<br>antenna)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>15:23 |
| S193 | 243     | 375/267.ccls. and<br>(close loop adj power<br>adj control)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>15:23 |
| S194 | 1986913 | 375/267.ccls. and<br>multiuser (close loop<br>adj power adj control)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>15:24 |
| S195 | 7       | 375/267.ccls. and<br>multiuser and (close<br>loop adj power adj<br>control)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/26<br>15:24 |

|      |    |   |                        |    |     |                  |
|------|----|---|------------------------|----|-----|------------------|
| S196 | 0  | 375/267.ccls. and multiuser and (close\$2 adj loop adj power adj control)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/26 15:25 |
| S197 | 1  | "6115406".pn.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/26 15:25 |
| S198 | 6  | ("4901307"   "5652764"   "5886987"   "5952968"   "5982327"   "5991332").PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/26 15:31 |
| S199 | 13 | ("4835790"   "5267262"   "5347535"   "5412686"   "5485486"   "5548835"   "5559789"   "5574983"   "5581547"   "5590409"   "5598404"   "5604766"   "5646937").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/26 15:45 |
| S200 | 26 | ("5886987").URPN.   | USPAT                  | OR | OFF | 2007/03/26 15:47 |
| S201 | 13 | ("4835790"   "5267262"   "5347535"   "5412686"   "5485486"   "5548835"   "5559789"   "5574983"   "5581547"   "5590409"   "5598404"   "5604766"   "5646937").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/26 15:57 |
| S202 | 5  | "375"/267.CCLS. and (MIMO and (MAI))  | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:06 |
| S203 | 7  | "375"/260.CCLS. and (MIMO and (MAI))  | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:07 |
| S204 | 30 | "375"/\$.CCLS. and (MIMO and (MAI))   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:08 |
| S205 | 18 | "370"/\$.CCLS. and (MIMO and (MAI))   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:09 |
| S206 | 7  | "455"/\$.CCLS. and (MIMO and (MAI))   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:09 |
| S207 | 10 | "455"/\$.CCLS. and (OFDM and (MAI))   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:12 |
| S208 | 39 | "370"/\$.CCLS. and (OFDM and (MAI))   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 07:10 |
| S209 | 39 | "375"/\$.CCLS. and (OFDM and (MAI))   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 08:04 |
| S210 | 1  | "6115427".pn.   | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 08:05 |
| S211 | 81 | (code adj rate) same (number near antenna)  | US-PGPUB; USPAT        | OR | ON  | 2007/03/27 08:20 |

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|------|-----|--|---------------------------|----|-----|---------------------|
| S212 | 1   | "6560295".pn.  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>08:52 |
| S213 | 387 | (space adj time) same<br>CDMA  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>08:53 |
| S214 | 68  | 375/267.ccls. and<br>((space adj time) same<br>CDMA)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>09:15 |
| S215 | 2   | 375/267.ccls. and<br>(compar\$8 with uplink<br>with downlink)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>09:16 |
| S216 | 1   | 375/222.ccls. and<br>(compar\$8 with uplink<br>with downlink)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>09:21 |
| S217 | 0   | 375/222.ccls. and<br>((compar\$8 with uplink<br>with downlink) same<br>interference)                               | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>09:21 |
| S218 | 9   | "375"/\$.ccls. and<br>((compar\$8 with uplink<br>with downlink) same<br>interference)                              | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>09:22 |
| S219 | 0   | "375"/222.ccls. and<br>(diagnostic adj bit)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>11:54 |
| S220 | 0   | "375"/222.ccls. and<br>(diagnostic adj tone)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>11:54 |
| S221 | 0   | "370"/\$.ccls. and<br>(diagnostic adj tone)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>13:14 |
| S222 | 19  | "370"/\$.ccls. and<br>(diagnostic with tone)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>13:17 |
| S223 | 0   | 375/222.ccls. and<br>(diagnostic adj tone)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:19 |
| S224 | 0   | 375/222.ccls. and<br>(diagnostic with tone)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:19 |
| S225 | 22  | 375/222.ccls. and<br>(diagnostic with bit)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:26 |
| S226 | 8   | ("5889856"  <br>"6137839"   "6263016"<br>  "6374288"  <br>"6400759"   "6442195"<br>  "6477595"  <br>"6594306").PN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>13:22 |
| S227 | 0   | 375/222.ccls. and<br>(diagnostic with DMT )  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:43 |
| S228 | 0   | "375"/\$.ccls. and<br>(diagnostic with DMT )   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:26 |
| S229 | 0   | "370"/\$.ccls. and<br>(diagnostic with DMT )   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:26 |
| S230 | 0   | "370"/\$.ccls. and<br>(diagnostic same DMT )   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/27<br>13:27 |

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|------|-----|--|-----------------|----|----|------------------|
| S231 | 1   | "375"/\$.ccls. and (diagnostic same DMT )            | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:39 |
| S232 | 113 | "375"/\$.ccls. and (diagnostic same message)         | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:39 |
| S233 | 4   | "375"/\$.ccls. and (diagnostic same message) and DMT | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:41 |
| S234 | 6   | "370"/\$.ccls. and (diagnostic same message) and DMT | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:42 |
| S235 | 0   | "370"/\$.ccls. and (diagnostic same DMT)             | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:42 |
| S236 | 1   | "375"/\$.ccls. and (diagnostic same DMT)             | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:45 |
| S237 | 15  | (diagnostic same DMT)                                | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:43 |
| S238 | 1   | 375/222.ccls. and (diagnostic adj message)           | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:43 |
| S239 | 0   | 375/260.ccls. and (diagnostic adj message) and DMT   | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:44 |
| S240 | 0   | 375/260.ccls. and (diagnostic adj message)           | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:44 |
| S241 | 21  | 375/260.ccls. and (diagnostic )                      | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:44 |
| S242 | 5   | 375/260.ccls. and (diagnostic ) and DMT              | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:45 |
| S243 | 5   | 375/260.ccls. and (diagnostic ) and OFDM             | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:45 |
| S244 | 1   | "379"/\$.ccls. and (diagnostic same DMT)             | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:45 |
| S245 | 5   | "379"/\$.ccls. and (diagnostic same bins)            | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:46 |
| S246 | 3   | "375"/\$.ccls. and (diagnostic same bins)            | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:46 |
| S247 | 12  | "370"/\$.ccls. and (diagnostic same bins)            | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:47 |
| S248 | 3   | "370"/\$.ccls. and (bit with diagnostic ) and DMT    | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:48 |
| S249 | 7   | "375"/\$.ccls. and (bit with diagnostic ) and DMT    | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:50 |
| S250 | 0   | "702"/\$.ccls. and (bit with diagnostic ) and DMT    | US-PGPUB; USPAT | OR | ON | 2007/03/27 13:50 |

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|------|----|---|--------------------------|----|-----|------------------|
| S251 | 0  | "370"/249.ccls. and (bit with diagnostic ) and DMT  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 13:52 |
| S252 | 0  | "370"/249.ccls. and ( diagnostic ) and DMT  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 13:52 |
| S253 | 65 | "370"/249.ccls. and ( diagnostic )  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 13:52 |
| S254 | 1  | "370"/249.ccls. and ( diagnostic adj message )  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 13:52 |
| S255 | 1  | "370"/249.ccls. and ( initiat\$5 near2 diagnostic )   | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 14:37 |
| S256 | 0  | dianostic same (DMT adj symbol)   | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 14:37 |
| S257 | 0  | diagnostic same (DMT adj symbol)  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 14:37 |
| S258 | 0  | "375"/\$.ccls. and (diagnostic same (DMT adj symbol))   | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 14:37 |
| S259 | 9  | "375"/\$.ccls. and (diagnostic and (DMT adj symbol))  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 14:57 |
| S260 | 1  | "375"/\$.ccls. and (diagnostic same DMT )   | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 14:58 |
| S261 | 19 | "375"/\$.ccls. and (bit near2 diagnostic )  | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 15:00 |
| S262 | 1  | "375"/\$.ccls. and (map \$5 with (bit near2 diagnostic) )   | US-PGPUB; USPAT          | OR | ON  | 2007/03/27 15:00 |
| S263 | 12 | ("4566100"   "5128619"   "5608643"   "5864602"   "5964891"   "6075821"   "6188717"   "6219378"   "6404774"   "6411678"   "6449307"   "6512789").PN. | US-PGPUB; USPAT; USOCR   | OR | OFF | 2007/03/27 15:07 |
| S264 | 0  | map\$7 with diagnostic with DMT   | US-PGPUB; USPAT; USOCR   | OR | OFF | 2007/03/27 15:08 |
| S265 | 0  | map\$7 with diagnostic with DMT   | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2007/03/27 15:09 |
| S266 | 0  | map\$7 with (diagnostic adj bit) with DMT   | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2007/03/27 15:09 |
| S267 | 1  | 375/260.ccls. and DMT and diagnostic  | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2007/03/27 15:13 |



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|------|----|--|--------------------------------|----|-----|---------------------|
| S268 | 13 | 375/222.ccls. and DMT and diagnostic   | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:10 |
| S269 | 0  | 375/260.ccls. and (diagnostic adj bit)   | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:13 |
| S270 | 1  | "375"/\$.ccls. and (diagnostic adj bit)  | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:13 |
| S271 | 1  | "379"/\$.ccls. and (diagnostic adj bit)  | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:14 |
| S272 | 69 | (diagnostic adj bit)   | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:15 |
| S273 | 0  | (diagnostic adj bit) and DMT   | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:14 |
| S274 | 0  | (diagnostic adj bit) and multicarrier  | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:14 |
| S275 | 0  | (diagnostic adj message) and (DMT adj symbol)  | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>15:16 |
| S276 | 1  | (diagnostic adj message) and (DMT adj symbol)  | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>16:15 |
| S277 | 4  | 10/127164  | US-PGPUB;<br>USPAT;<br>IBM_TDB | OR | OFF | 2007/03/27<br>16:15 |
| S278 | 44 | ("20020006169"  <br>"20020191709"  <br>"20030067995"  <br>"3898566"   "4878232"<br>  "5163181"  <br>"5228055"   "5249201"<br>  "5490172"  <br>"5493587"   "5579342"<br>  "5608760"  <br>"5621762"   "5636247"<br>  "5638404"  <br>"5651028"   "5727026"<br>  "5751705"  <br>"5805640"   "5822360"<br>  "5930678"  <br>"5991262"   "6009090"<br>  "6032029"  <br>"6041081"   "6125103"<br>  "6128351"  <br>"6130918"   "6175551"<br>  "6222873"  <br>"6229995"   "6236864"<br>  "6240141" | US-PGPUB;<br>USPAT; USOCR      | OR | OFF | 2007/03/27<br>16:19 |

|      |     |   |                           |    |     |                     |
|------|-----|---|---------------------------|----|-----|---------------------|
|      |     | "6246725"   "6294956"<br>  "6356606"  <br>"6449302"   "6504862"<br>  "6687511"  <br>"6701163"   "6931053"<br>  "6931079"  <br>"6931239"  <br>"6931240").PN. |                           |    |     |                     |
| S279 | 1   | "5930678".pn.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2007/03/27<br>16:19 |
| S280 | 0   | (diagnostic adj DMT)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:37 |
| S281 | 29  | (diagnostic adj tone)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:37 |
| S282 | 0   | "375"/\$.ccls. and<br>(diagnostic adj tone)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:37 |
| S283 | 0   | "375"/\$.ccls. and<br>(diagnostic near tone)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:37 |
| S284 | 7   | "375"/\$.ccls. and<br>(diagnostic near bits)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:38 |
| S285 | 0   | "375"/\$.ccls. and<br>(diagnos\$6 near DMT)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:38 |
| S286 | 0   | "375"/\$.ccls. and<br>(diagnos\$6 with DMT)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:38 |
| S287 | 479 | "375"/\$.ccls. and (bit<br>with DMT)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:39 |
| S288 | 207 | "375"/\$.ccls. and (bit<br>near3 DMT)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:39 |
| S289 | 13  | "375"/\$.ccls. and (bit<br>near3 DMT) and<br>diagnost\$5  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:47 |
| S290 | 1   | "375"/\$.ccls. and ( DMT<br>same diagnost\$5)   | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:47 |
| S291 | 40  | "375"/\$.ccls. and ( DMT<br>and diagnost\$5)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:49 |
| S292 | 43  | "375"/222.ccls. and<br>( diagnost\$5 near3<br>modem)  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:50 |
| S293 | 10  | "375"/222.ccls. and<br>( diagnost\$5 near3<br>modem) and DMT  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:56 |
| S294 | 0   | "370"/484.ccls. and<br>( diagnost\$5 near3<br>modem) and DMT  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:52 |
| S295 | 0   | "370"/484.ccls. and<br>( diagnost\$5 ) and DMT  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:52 |
| S296 | 1   | "370"/484.ccls. and<br>( diagnost\$5 )  | US-PGPUB;<br>USPAT        | OR | ON  | 2007/03/28<br>07:52 |

|      |       |   |                    |    |    |                     |
|------|-------|---|--------------------|----|----|---------------------|
| S297 | 16    | "370"/480.ccls. and<br>( diagnos\$5 )   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>07:52 |
| S298 | 11    | "375"/222.ccls. and<br>( diagnos\$5 adj mode)   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:08 |
| S299 | 1     | "6658052".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:26 |
| S300 | 96171 | (one adj bit)   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:27 |
| S301 | 5     | (one adj bit) with (DMT<br>adj symbol)  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:28 |
| S302 | 197   | (bit) with (DMT adj<br>symbol)  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:28 |
| S303 | 27    | (bit) with (DMT adj<br>symbol) and (diagnos<br>\$7)   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:30 |
| S304 | 0     | (bit near test\$5) with<br>(DMT adj symbol)   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:31 |
| S305 | 0     | (diagnost near tone)<br>and (DMT adj symbol)  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:31 |
| S306 | 0     | (diagnos\$5 near tone)<br>and (DMT adj symbol)  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:31 |
| S307 | 0     | (diagnos\$5 near tone)<br>and (DMT )  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:31 |
| S308 | 0     | (diagnos\$5 near<br>carrier) and (DMT )   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>08:36 |
| S309 | 5     | diagnos\$5 with (DMT )  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>09:12 |
| S310 | 106   | (Pulse adj width adj<br>modulat\$6) same (FSK)  | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>10:04 |
| S311 | 1     | "6633545".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>10:48 |
| S312 | 1     | 10/619691   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/28<br>10:48 |
| S313 | 1     | "6633545".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/29<br>09:09 |
| S314 | 1     | "6673179".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/29<br>09:09 |
| S315 | 1     | "6073179".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2007/03/29<br>09:10 |
| S316 | 0     | "375"/\$.ccls. and<br>(diagnos\$6 same<br>((frequency adj<br>domain) with (idle adj<br>channel adj noise))) | US-PGPUB;<br>USPAT | OR | ON | 2008/05/27<br>09:52 |
| S317 | 0     | (diagnos\$6 same<br>((frequency adj<br>domain) with (idle adj<br>channel adj noise)))                       | US-PGPUB;<br>USPAT | OR | ON | 2008/05/27<br>09:52 |

|      |     |   |                                   |    |    |                  |
|------|-----|---|-----------------------------------|----|----|------------------|
| S318 | 0   | (diagnos\$6 and ((frequency adj domain) with (idle adj channel adj noise))) | US-PGPUB; USPAT                   | OR | ON | 2008/05/27 09:52 |
| S319 | 0   | "10619691".pn.  | US-PGPUB; USPAT                   | OR | ON | 2008/05/27 10:03 |
| S320 | 1   | "10/619691"   | US-PGPUB; USPAT                   | OR | ON | 2008/05/27 10:03 |
| S321 | 1   | "10619691"  | US-PGPUB; USPAT                   | OR | ON | 2008/06/08 23:12 |
| S322 | 0   | "375"/\$.ccls. and ((diagnostic adj information) same (DMT adj symbol))     | US-PGPUB; USPAT                   | OR | ON | 2008/06/08 23:32 |
| S323 | 0   | "375"/\$.ccls. and ((diagnostic) with (DMT adj symbol))                     | US-PGPUB; USPAT                   | OR | ON | 2008/06/08 23:32 |
| S324 | 0   | "379"/\$.ccls. and ((diagnostic) with (DMT adj symbol))                     | US-PGPUB; USPAT                   | OR | ON | 2008/06/08 23:33 |
| S325 | 0   | "375"/\$.ccls. and ((diagnostic) with (DMT ))                               | US-PGPUB; USPAT                   | OR | ON | 2008/06/08 23:33 |
| S326 | 0   | "375"/\$.ccls. and ((diagnostic) with (DMT ))                               | US-PGPUB; USPAT; DERWENT; IBM_TDB | OR | ON | 2008/06/08 23:33 |
| S327 | 1   | "375"/\$.ccls. and ((diagnostic) same (DMT ))                               | US-PGPUB; USPAT; DERWENT; IBM_TDB | OR | ON | 2008/06/08 23:33 |
| S328 | 4   | "375"/\$.ccls. and ((diagnostic) same (multicarrier))                       | US-PGPUB; USPAT; DERWENT; IBM_TDB | OR | ON | 2008/06/08 23:34 |
| S329 | 3   | "375"/\$.ccls. and ((diagnostic adj information) same (multicarrier))       | US-PGPUB; USPAT; DERWENT; IBM_TDB | OR | ON | 2008/06/08 23:34 |
| S330 | 26  | "375"/222.ccls. and ((diagnostic adj information) )                         | US-PGPUB; USPAT; DERWENT; IBM_TDB | OR | ON | 2008/06/08 23:35 |
| S331 | 2   | 09/925509   | US-PGPUB; USPAT                   | OR | ON | 2008/06/09 07:54 |
| S332 | 12  | 09/755173   | US-PGPUB; USPAT                   | OR | ON | 2008/06/09 07:55 |
| S333 | 142 | idle adj channel adj noise  | US-PGPUB; USPAT                   | OR | ON | 2008/06/09 08:08 |

|      |        |  |                    |    |    |                     |
|------|--------|--|--------------------|----|----|---------------------|
| S334 | 3      | S333 and DMT   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:09 |
| S335 | 2      | S333 same (diagnostic)                                 | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:11 |
| S336 | 256150 | S333 ande (diagnostic)                                 | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:14 |
| S337 | 20     | S333 and (diagnostic)                                  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:14 |
| S338 | 32     | (diagnostic adj symbol)                                | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:21 |
| S339 | 0      | "375"/\$.ccls and<br>(diagnostic adj symbol)           | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:22 |
| S340 | 0      | "370"/\$.ccls and<br>(diagnostic adj symbol)           | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:22 |
| S341 | 0      | "370"/\$.ccls with<br>(diagnostic adj symbol)          | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:22 |
| S342 | 0      | "375"/\$.ccls with<br>(diagnostic adj symbol)          | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:22 |
| S343 | 0      | "375"/\$.ccls with<br>(diagnostic same<br>symbol)      | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:22 |
| S344 | 0      | "370"/\$.ccls with (test<br>adj symbol)                | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:23 |
| S345 | 0      | "370"/\$.ccls with (test<br>with symbol)               | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:23 |
| S346 | 0      | "375"/\$.ccls with (test<br>with symbol)               | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:23 |
| S347 | 0      | "370"/\$.ccls with<br>(testing with symbol)            | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:24 |
| S348 | 5      | (test\$6 with (DMT adj<br>symbol))                     | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:24 |
| S349 | 0      | (diagnos\$6 with (DMT<br>adj symbol))                  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:25 |
| S350 | 0      | (diagnos\$6 same (DMT<br>adj symbol))                  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:26 |
| S351 | 646    | (map\$7same (DMT adj<br>symbol))                       | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:26 |
| S352 | 0      | ((diagnostic) with (DMT<br>adj symbol))                | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:27 |
| S353 | 0      | ((diagnostic) same<br>(DMT adj symbol))                | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>08:27 |
| S354 | 9421   | transmit\$7 with<br>diagnostic                         | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>09:42 |
| S355 | 185    | "375"/\$.ccls. and<br>(transmit\$7 with<br>diagnostic) | US-PGPUB;<br>USPAT | OR | ON | 2008/06/09<br>09:42 |

|      |     |   |                 |    |    |                  |
|------|-----|---|-----------------|----|----|------------------|
| S356 | 79  | "375"/\$.ccls. and (transmit\$7 near3 diagnostic)         | US-PGPUB; USPAT | OR | ON | 2008/06/09 09:42 |
| S357 | 11  | "375"/222.ccls. and (diagnostic adj mode)                 | US-PGPUB; USPAT | OR | ON | 2008/10/06 09:00 |
| S358 | 4   | "375"/222.ccls. and (idle adj channel adj noise)          | US-PGPUB; USPAT | OR | ON | 2008/10/06 09:15 |
| S359 | 1   | "6658052".pn.   | US-PGPUB; USPAT | OR | ON | 2008/10/06 09:17 |
| S360 | 13  | "375"/\$.ccls. and modem and (idle adj channel adj noise) | US-PGPUB; USPAT | OR | ON | 2008/10/06 09:20 |
| S361 | 749 | (diagnostic with tone)                                    | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:04 |
| S362 | 0   | 375/222.ccls. and (diagnostic with tone)                  | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:04 |
| S363 | 0   | 375/222.ccls. and (diagnostic adj bits)                   | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:04 |
| S364 | 26  | 375/222.ccls. and (diagnostic with bits)                  | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:04 |
| S365 | 0   | 375/222.ccls. and (diagnostic with DMT)                   | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:07 |
| S366 | 0   | 375/222.ccls. and (diagnostic with tone)                  | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:07 |
| S367 | 10  | "375"/\$.ccls. and (diagnostic with tone)                 | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:07 |
| S368 | 6   | (diagnostic with DMT)                                     | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:08 |
| S369 | 6   | 375/222.ccls. and (diagnostic adj information) and DMT    | US-PGPUB; USPAT | OR | ON | 2008/10/10 11:09 |
| S370 | 2   | "20020031167"   | US-PGPUB; USPAT | OR | ON | 2008/10/10 14:18 |
| S371 | 2   | "20010047424"   | US-PGPUB; USPAT | OR | ON | 2008/10/10 14:21 |
| S372 | 1   | "6697969".pn.   | US-PGPUB; USPAT | OR | ON | 2008/10/10 14:50 |
| S373 | 1   | "6510162".pn.   | US-PGPUB; USPAT | OR | ON | 2008/10/10 15:10 |
| S374 | 1   | (upgrad\$7 adj firmware) with (cable adj modem)           | US-PGPUB; USPAT | OR | ON | 2008/10/10 15:26 |
| S375 | 1   | (upgrad\$7 adj firmware) same (cable adj modem)           | US-PGPUB; USPAT | OR | ON | 2008/10/10 15:27 |
| S376 | 0   | (upgrad\$7 adj firmware) same (CMTS and TFTP)             | US-PGPUB; USPAT | OR | ON | 2008/10/10 15:27 |

|      |     |  |                    |    |    |                     |
|------|-----|--|--------------------|----|----|---------------------|
| S377 | 1   | (upgrad\$7 adj<br>firmware) and (CMTS<br>and TFTP)   | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:27 |
| S378 | 932 | (upgrad\$7 adj<br>firmware)                          | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:27 |
| S379 | 29  | (upgrad\$7 adj<br>firmware) same modem               | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:28 |
| S380 | 1   | CMTS and ((upgrad\$7<br>adj firmware) same<br>modem) | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:29 |
| S381 | 1   | CMTS same (upgrad\$7<br>adj firmware)                | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:43 |
| S382 | 282 | CMTS same (digital adj<br>subscriber adj line)       | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:49 |
| S383 | 186 | CMTS with (digital adj<br>subscriber adj line)       | US-PGPUB;<br>USPAT | OR | ON | 2008/10/10<br>15:49 |

10/13/2008 10:30:46 AM

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